

**STATEMENT OF BASIS (AI No. 19145)**

for draft Louisiana Pollutant Discharge Elimination System permit No. **LA0070777** to discharge to waters of the State of Louisiana.

**THE APPLICANT IS:** Capital Marine Supply, Inc.  
Reserve Facility  
Post Office Drawer AT  
Reserve, LA 70084

**ISSUING OFFICE:** Louisiana Department of Environmental Quality (LDEQ)  
Office of Environmental Services  
Post Office Box 4313  
Baton Rouge, Louisiana 70821-4313

**PREPARED BY:** Lisa Kemp

**DATE PREPARED:** July 21, 2009

**1. PERMIT STATUS****A. Reason For Permit Action:**

Permit reissuance of a Louisiana Pollutant Discharge Elimination System (LPDES) permit for a 5-year term.

**B. LPDES permits – LA0070777**

LPDES permit effective date: February 1, 2004

LPDES permit expiration date: January 31, 2009

EPA has not retained enforcement authority.

This permit was modified on August 12, 2008 to reflect the name change from Capital Marine Supply, LLC to Capital Marine Supply, Inc.

**C. Date Application Received: August 4, 2008; additional information received on July 16, 2009****2. FACILITY INFORMATION****A. FACILITY TYPE/ACTIVITY - barge fleeting, repair, and cleaning facility**

Capital Marine Supply, Inc. is an existing barge fleeting, repair, and cleaning facility. The barges are open top and covered dry cargo barges. Presently, barge repair and barge cleaning at this site are conducted by AEP Elmwood under LPDES permit LA0116149 (see Appendix A, letter dated August 16, 2006 from Chang, LDEQ to Ory, Capital Marine Supply, Inc.). However, Capital Marine Supply would like to include the barge repair and barge cleaning operations in this permit (LA0070777) to provide operational flexibility in the event that Capital Marine Supply decides to resume the barge repair and cleaning operations. The anticipated ratio of barge repair to barge cleaning is 5 to 4. See Attachment 1 for a list of commodities handled at the facility.

After off-loading dry commodity cargo from a hopper barge, residual material remaining in the barge will be removed to the maximum extent possible utilizing a front-end loader and/or hand shoveling and sweeping. A suction pump is placed at the lowest end of the barge and river water

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is used to wash down the barge starting at the higher end and working back toward the suction pump. Any remaining cargo residue and washwater will be pumped overboard.

Treatment for coal/coke barge washwater will consist of solids settling in an open hopper barge. Washwater will be pumped into the barge and over weirs before accumulating in the opposite end. The washwater will sit for a minimum of 24 hours prior to being discharged to the river. The discharged water will be decanted in a manner such that the accumulated solids on the bottom of the final chamber are not suctioned and discharged by the pump.

B. FEE RATE

1. Fee Rating Facility Type: minor
2. Complexity Type: II\*
3. Wastewater Type: II
4. SIC code: 4491\*, 4492, and 3731

\*II as per LAC33:IX.1319 Table I and SIC 4463. In Appendix A - Section IV (Relation of 1987 to 1977 Industries) of the Standard Industrial Classification Manual, the SIC code 4491 is equivalent to a previous SIC code of 4463

- B. LOCATION - at the foot of LA Highway 3179, between River Mile 133 and 138 on the Mississippi River, in Reserve, St. John the Baptist Parish

Latitude 30° 2' 59", Longitude 90° 32' 12"

3. **OUTFALL INFORMATION**

Note: Outfall 007 for the discharge of treated mechanic shop washdown and bilge water and Outfall 008 for the discharge of treated bilge water were deleted in the previous permit.

Outfall 001

Discharge Type: coal and coke vessel washwater  
 Treatment: settling barge  
 Location: at the point of discharge from the pump prior to combining with other waters  
 Flow: intermittent  
 Discharge Route: Mississippi River

Outfall 002

Discharge Type: dry commodity vessel washwater  
 Treatment: none  
 Location: at the point of discharge from the vessel being washed prior to combining with other waters  
 Flow: intermittent  
 Discharge Route: Mississippi River

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Outfall 003

Discharge Type: treated sanitary wastewater from Dock String A\*  
Treatment: marine sanitation device  
Location: at the point of discharge from the STP prior to mixing with other waters  
Flow: 1200 GPD  
Discharge Route: Mississippi River

Outfall 004

Discharge Type: treated sanitary wastewater from Dock String B\*  
Treatment: marine sanitation device  
Location: at the point of discharge from the STP prior to mixing with other waters  
Flow: 1200 GPD  
Discharge Route: Mississippi River

\* Previously, Outfall 003 was for the discharge of treated sanitary wastewater from the Harvey III and Outfall 004 was for the discharge of treated sanitary wastewater from the Jane Clark. The Harvey III and the Jane Clark have been removed from service. The replacement barges are referenced as "Dock String A" and "Dock String B."

Outfall 005

Discharge Type: treated sanitary wastewater from the LSM

**This Outfall has been deleted.**

Outfall 006A incoming ballast water from customer barges

**This outfall has been deleted.** These discharges are now covered under EPA's Vessel General Permit.

Outfall 006 (previously Outfall 006B)

Discharge Type: facility ballast water, dry dock ballast water, and void water  
Treatment: none  
Location: at the point of discharge from the vessel/dry dock prior to combining with other waters  
Flow: intermittent  
Discharge Route: Mississippi River

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Outfall 009

Discharge Type: Dry Dock Ballast Water

**This Outfall has been deleted.** Dry dock ballast water will now be included in Outfall 006, facility ballast water, dry dock ballast water, and void water.

**4. RECEIVING WATERS**

STREAM - Mississippi River

BASIN AND SEGMENT - Mississippi River Basin Basin, Segment 070301

DESIGNATED USES -

- a. primary contact recreation
- b. secondary contact recreation
- c. propagation of fish and wildlife
- d. drinking water supply

**5. TMDL STATUS**

The discharges from Capital Marine Supply, Inc. are to the Mississippi River, Subsegment 070301 of the Mississippi River Basin. Subsegment 070301 is not listed on LDEQ's Final 2006 303(d) List as impaired, and to date no TMDL's have been established. A reopener clause will be established in the permit to allow for the requirement of more stringent effluent limitations and requirements as imposed by any future TMDLs.

**6. CHANGES FROM THE PREVIOUS PERMIT**

1. Outfall 001 – the wastewater description has been changed from “coal and coke barge washwater” to “coal and coke vessel washwater” in accordance with current LDEQ guidance for similar outfalls from similar facilities.
2. Outfall 002 – the wastewater description has been changed from “dry commodity barge washwater” to “dry commodity vessel washwater” in accordance with current LDEQ guidance for similar outfalls from similar facilities.
3. Outfall 005, treated sanitary wastewater, has been deleted.
4. Outfall 006A, incoming customer ballast water, has been deleted. These discharges are now covered under EPA's Vessel General Permit (VGP).
5. Outfall 006B has been renumbered and is now Outfall 006. The wastewater description has been changed from “ballast water from work barges and spar barges” to “facility ballast water, dry dock ballast water, and void water.” Visual Sheen has been added to Outfall 006. Monitoring frequency for Outfall 006 has been changed from once/month when sampling is required to once/event when sampling is required. These changes have been made in accordance with current LDEQ guidance for similar outfalls from similar facilities.
6. Outfall 009, dry dock ballast water, has been deleted. Dry dock ballast water will now be included in Outfall 006.
7. Monthly average effluent limitations for BOD, TSS, and Fecal Coliform and monthly average flow reporting have been established at Outfalls 003 and 004 - treated sanitary wastewater. Weekly average limitations are now daily maximum. These changes have been made in accordance with current LDEQ guidance for similar discharges from similar facilities.

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8. Part II language for facility ballast and/or void water has been updated in accordance with current LDEQ guidance for similar discharges from similar facilities.
9. Language has been added to Part II of the permit stating that this LPDES permit does not exempt the facility from compliance with the requirements of the EPA Vessel General Permit for Discharges Incidental To The Normal Operation of Vessels (VGP).

## 7. COMPLIANCE HISTORY/COMMENTS

1. OEC – There are no open, appealed, or pending OEC enforcement actions as of July 16, 2009.
2. DMR Review/Excursions – DMRs reviewed for the years 2007 and 2008 showed no excursions.

All DMRs reported “no discharge” for Outfalls 004 and 005 (treated sanitary wastewater). Outfall 003 (treated sanitary wastewater) DMRs reported “no discharge” after May, 2008. The Harvey III (Outfall 003) and the Jane Clark (Outfall 004) have been removed from service and are scheduled to be replaced. Outfall 005 has been taken out of service.

The barge cleaning and repair operations are currently conducted by AEP Elmwood under LPDES permit LA0116149. Therefore DMRs for barge washwater (Outfalls 001 and 002) and dry dock ballast water (Outfall 009) reported “no discharge” for 2007 and 2008.

3. Inspection – There are no recent inspections on file.

## 8. EXISTING EFFLUENT LIMITS

Outfall 001: coal and coke barge washwater

Pollutant	Limitation		Frequency
	Monthly Avg	Daily Max	
	mg/L		
Flow	Report	Report	1/day
COD	250	400	weekly
TSS	Report	Report	monthly
pH, s.u.	6.0 (min)	9.0 (max)	weekly

Outfall 002: dry commodity barge washwater.

No effluent limitations are established for washwaters from barges previously containing dry commodities. Best Management Practices (BMPs) for barge operations are listed in Facility Specific Requirements of the permit.

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Outfall 003: treated sanitary wastewater from the Harvey III  
Outfall 004: treated sanitary wastewater from the Jane Clark  
Outfall 005: treated sanitary wastewater from the LSM

Pollutant	Limitation		Frequency
	Monthly Avg	Weekly Average	
	mg/L		
Flow	---	Report	1/ 6 months
BOD <sub>5</sub>	---	45	1/ 6 months
TSS	---	45	1/ 6 months
Fecal Coliform colonies/100ml	---	400	1/ 6 months
pH, s.u.	6.0 (min)	9.0 (max)	1/ 6 months

Outfall 006A – incoming ballast water from customer barges  
Outfall 006B – ballast water from work barges and spar barges  
Outfall 007 - dry dock ballast water including slurried dry dock ballast water

Section 607 - dry dock ballast water including slurried dry dock ballast water			
Pollutant	Limitation		Frequency
	Monthly Avg.	Daily Max	
	mg/L (unless stated)		
Flow	Report	Report	1/week (*1)
COD	---	250	1/week (*1)
Oil & Grease	---	15	1/week (*1)
pH			
standard units	6.0 (min)	9.0 (max)	1/week (*1)

(\*1) Sampling for 006B and 007 is only required if a visible oil sheen is present. The measurement frequency for 006B shall be 1/month whenever sampling is required instead of 1/week as stated above. The measurement frequency for 007 shall be once per discharge event whenever a sheen is present.

## 9. ENDANGERED SPECIES

The receiving waterbody, Subsegment 070301 of the Mississippi River Basin, has been identified by the U.S. Fish and Wildlife Service (FWS) as habitat for the Pallid Sturgeon, which is listed as an endangered species. LDEQ has not submitted this draft permit to the FWS for review in accordance with a letter dated November 17, 2008 from Rieck (FWS) to Nolan (LDEQ). As set forth in the Memorandum of Understanding between the LDEQ and the FWS, and based on information provided by the FWS, LDEQ has determined that the issuance of the LPDES permit is not likely to have an adverse effect upon the Pallid Sturgeon. The effluent limitations established in the permit ensure protection of aquatic life and maintenance of the receiving water as aquatic habitat. Therefore, the issuance of the LPDES permit is not likely to have an adverse effect on any endangered or candidate species or the critical habitat.

## 10. HISTORIC SITES

The discharge is from an existing facility location, which does not include an expansion on undisturbed soils. Therefore, there should be no potential effect to sites or properties on or eligible for listing on the National Register of Historic Places, and in accordance with the "Memorandum of Understanding for the

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Protection of Historic Properties in Louisiana Regarding LPDES Permits" no consultation with the Louisiana State Historic Preservation Officer is required.

**11. TENTATIVE DETERMINATION**

On the basis of preliminary staff review, the Department of Environmental Quality has made a tentative determination to issue a permit for the discharge described in the application.

**12. PUBLIC NOTICES**

Upon publication of the public notice, a public comment period shall begin on the date of publication and last for at least 30 days thereafter. During this period, any interested persons may submit written comments on the draft permit and may request a public hearing to clarify issues involved in the permit decision at this Office's address on the first page of the statement of basis. A request for a public hearing shall be in writing and shall state the nature of the issues proposed to be raised in the hearing.

Public notice published in:

Local newspaper of general circulation

Office of Environmental Services Public Notice Mailing List

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### Rationale for Capital Marine Supply, Inc.

#### 1. Outfall 001: coal and coke vessel washwater

Pollutant	Limitation		Reference
	Monthly Avg	Daily Max	
	mg/L		
Flow	Report	Report	LAC 33:IX.2701.I.1.b
COD	250	400	Similar discharges (BPJ)
TSS	Report	Report	Similar discharges (BPJ)
pH, s.u.	6.0 (min)	9.0 (max)	Similar discharges (BPJ)

BPJ Best Professional Judgment

**Treatment:** none

**Monitoring Frequency:** TSS shall be monitored once per month and Flow, COD and pH shall be monitored once per week at the point of discharge from the pump prior to combining with other waters.

**Limits Justification:** Limits and Monitoring Frequency are based on current guidance for similar discharges from other industrial facilities.

#### 2. Outfall 002: dry commodity vessel washwater

Based on BPJ and on permits for similar facilities, no effluent limitations are established for washwaters from barges previously containing dry commodities (see Attachment 1 for commodity list). Best Management Practices (BMPs) for barge operations are listed in Part II.

#### 3. Outfall 003: treated sanitary wastewater from Dock String A Outfall 004: treated sanitary wastewater from Dock String B

Pollutant	Limitation		Reference
	Monthly Avg	Daily Max.	
	mg/L		
Flow	Report	Report	
BOD <sub>5</sub>	30	45	BPJ; LAG530000 and similar discharges
TSS	30	45	BPJ; LAG530000 and similar discharges
Fecal Coliform colonies/100ml	200	400	BPJ; LAG530000 and similar discharges
pH, s.u.	6.0 (min)	9.0 (max)	BPJ; LAG530000 and similar discharges

**Treatment:** marine sanitation device

**Monitoring Frequency:** 1/6 months for all parameters at the point of discharge from the STP prior to combining with other waters.



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**Limits Justification:** BPJ; per the Class I Sanitary Discharge General Permit (LAG530000), Schedule B, Treated Sanitary Wastewater less than 5000 GPD and similar discharges.

5. **Outfall 006:** facility ballast water, dry dock ballast water, and void water.

Pollutant	Limitation		Reference
	Monthly Avg	Daily Max	
	mg/L		
Flow <sup>1</sup>	Report	Report	
COD <sup>1</sup>	---	250	Similar discharges (BPJ)
Oil & Grease <sup>1</sup>	---	15	Similar discharges (BPJ)
Visual Sheen <sup>2</sup>	---	No presence	Similar discharges (BPJ)
pH, s.u. <sup>1</sup>	6.0 (min)	9.0 (max)	Similar discharges (BPJ)

BPJ Best Professional Judgment

**Treatment:** none

**Monitoring Frequency:** 1/day for Visual Sheen. Flow, COD, Oil & Grease and pH shall be monitored once per event at the point of discharge from the vessel/dry dock prior to combining with other waters.

**Limits Justification:** Limits and Monitoring Frequency are based on current guidance for similar discharges from other industrial facilities.

1. Discharge shall be sampled whenever there is a presence of a visible sheen.
2. When discharging.

This facility is not subject to Effluent Limitations Guidelines for Transportation Equipment Cleaning, 40 CFR Part 442, because, in accordance with 40 CFR 442.1.a, "this part applies to discharges resulting from cleaning the interior of tanks used to transport chemical, petroleum or food grade cargos." This facility cleans barges and vessels containing dry commodities only. This facility does not clean barges and vessels containing chemical, petroleum or food grade cargos as defined in 40 CFR 442.

#### Storm Water Pollution Prevention Plan (SWP3) Requirement

As per LAC33:IX.2511.B.14.k, stormwater discharges from facilities classified as SIC Codes 4491, 4492, and 3731 are considered to be associated with industrial activities and accordingly require SWP3 requirements. However, an SWP3 is not included in the permit because the facility is a water related operation only. Barge BMPs are comparable to the SWP3 requirements; therefore, the barge BMPs will be applied instead.